CLAIM SUMMARY DOCUMENT:

Please amend the Claims according to the following:

40. (Currently Amended) A recombinant adenoviral vector derived from a human adenovirus comprising an exogenous nucleotide sequence encoding all or part of an antibody directed against a tumor or an epitope specific for an infectious and pathogenic organism, ~~and placed under the control of the elements necessary for its expression~~, wherein said antibody is modified by fusion to a toxic or immunopotentiating substance, and wherein said exogenous nucleotide sequence is under the control of elements necessary for expression of said modified antibody.

41. (Previously Amended) The recombinant adenoviral vector according to Claim 40, wherein said antibody is selected from the group consisting of a native antibody, a chimeric antibody, an antibody fragment and a bispecific antibody.

42. (Withdrawn - Currently Amended) The recombinant adenoviral vector according to Claim 40, wherein said antibody is ~~may be~~ modified by fusion to a toxic substance selected from a ribonuclease, ricin, diphtheria toxin, cholera toxin, herpes simplex virus thymidine kinase, cytosine deaminase from Escherichia coli or from a yeast

of the genus Saccharomyces, exotoxin from Pseudomonas and human angiogenin or an analog of the said substances.

43. (Currently Amended) The recombinant adenoviral vector according to Claim 40, wherein said antibody is modified by fusion to an immunopotentiating substance.

44. (Currently Amended) A recombinant adenoviral vector derived from a human adenovirus comprising an exogenous nucleotide sequence encoding all or part of one or more protein or proteins ~~protein(s)~~ of interest capable of forming a multimer~~, such as a dimer or a tetramer,~~ in a host cell; said exogenous nucleotide sequence being placed under the control of the elements necessary for its expression~~, said vector being derived from an adenovirus of human, canine, avian, bovine, murine, ovine, porcine or simian origin or a hybrid comprising adenoviral genome fragments of different origins~~.

45. (Canceled)

46. (Previously Amended) The recombinant adenoviral vector according to Claim 40, wherein it is defective for replication.

47. (Previously Amended) The recombinant adenoviral vector according to Claim 46, wherein it lacks at least all or part of the E1 region and, optionally, all or part of the E3 region.

48. (Currently Amended) The recombinant adenoviral vector according to Claim 46, ~~comprising an~~ wherein said exogenous nucleotide sequence ~~encoding~~ encodes the heavy chain of the 2F5 antibody, an IRES element and the light chain of the 2F5 antibody; ~~said exogenous nucleotide sequence being placed under the control of elements necessary for its expression~~, wherein said 2F5 antibody is modified by fusion to a toxic or immunpotentiating substance.

49. (Previously Amended) The recombinant adenoviral vector according to Claim 46, comprising an exogenous nucleotide sequence encoding the signal sequence and the extracellular I and II domains of the CD4 protein operably fused to the constant γ3 region (hinge region-CH2 and CH3) of the heavy chain of the 2F5 antibody.

50. (Previously Amended) The recombinant adenoviral vector according to Claim 46, comprising an exogenous nucleotide sequence encoding the signal sequence and the extracellular I and II domains of the CD4 protein operably fused to the constant γ3 region (hinge region-CH2 and CH3) of the heavy chain of the 2F5 antibody and operably fused to the mature human angiogenin.

51. (Previously Amended) The recombinant adenoviral vector according to Claim 40, wherein the elements necessary for the expression comprise a promoter selected from the group consisting of the adenoviral early promoter E1A, the late promoter MLP (Major Late Promoter), the murine or human PGK (Phosphoglycerate kinase) promoter, the SV40 virus early promoter, the RSV (Rous Sarcoma virus) virus promoter, a tumor-specific promoter ~~which is specifically active in tumor cells and a promoter which is specifically active in the infected cells~~.

52. (Previously Amended) An infectious viral particle comprising a recombinant adenoviral vector according to Claim 40.

53. (Previously Amended) A eukaryotic host cell comprising a recombinant adenoviral vector according to Claim 40.

54. (Previously Amended) A pharmaceutical composition comprising a recombinant adenoviral vector according to Claim 40, in association with a pharmaceutically acceptable carrier.

55. (Previously Amended) The pharmaceutical composition according to Claim 54, comprising 10^4 to 10^{14} pfu.

56. (Previously Amended) The pharmaceutical composition according to Claim 54, wherein it is in injectable form.

57. (Previously Amended) The recombinant adenoviral vector according to Claim 44, wherein it is defective for replication.

58. (Currently Amended) The recombinant adenoviral vector according to Claim 44, wherein the elements necessary for the expression comprise a promoter selected from the group consisting of the adenoviral early promoter E1A, the late promoter MLP (Major Late Promoter), the murine or human PGK (Phosphoglycerate kinase) promoter, the SV40 virus early promoter, the RSV (Rous Sarcoma virus) virus promoter, a tumor-specific promoter ~~which is specifically active in tumor cells and a promoter which is specifically active in the infected cells~~.

59. (New) The recombinant adenoviral vector according to Claim 44, wherein said multimer is a dimer or a tetramer.

60. (New) The recombinant adenoviral vector according to Claim 40, wherein said antibody is modified by fusion to a toxic substancce and an immunopotentiating substance.